## What is claimed is:

1	1.	A method for simulating hardware circuits during which voltages are		
2		calcu	lated at a plurality of circuit nodes, comprising the steps of:	
3		(a)	carrying out a first DC-simulation run at the begin of a functional	
4			cycle,	
5		(b)	carrying out a second DC-simulation run at the end of said cycle,	
6		(c)	comparing simulated values from both runs at respective circuit	
7			nodes, and	
8		(d)	storing mismatch information about static error afflicted nodes at	
9			which the calculated values differ by more than a predetermined	
10			first threshold value.	
1	2.	The n	method according to claim 1 further comprising the steps of:	
2		(e)	putting out said mismatch information for a manual correction,	
3		(f)	carrying out a transient analysis covering the same functional cycle	
4			after correction,	
5		(g)	comparing calculated values from said analysis with calculated	
6			values from said first or second DC simulation run at respective	
7				
			circuit nodes, and	
8		(h)	circuit nodes, and storing mismatch information about dynamic error afflicted nodes at	
8 9		(h)	·	
		(h)	storing mismatch information about dynamic error afflicted nodes at	
9		(h)	storing mismatch information about dynamic error afflicted nodes at which the calculated values differ by more than a predetermined	

- 1 3. The method according to claim 2 further comprising the step of automatically correcting dynamic errors in a simulation input file.
- 1 4. The method according to 3 claim further comprising the step of performing an iterative hardware simulation with the corrected simulation input file.

2	J.	START TIME prior to the begin of a functional cycle.	
1	6.	The r	method according to claim 1 in which the hardware is built according
2		to sili	con-on insulator (SOI) technology.
1	7.	A cor	mputer system having installed program means comprising program
2		code	portions for performing the steps:
3 4		(a)	carrying out a first DC-simulation run at the begin of a functional cycle,
5		(b)	carrying out a second DC-simulation run at the end of said cycle,
6		(c)	comparing simulated values from both runs at respective circuit
7			nodes, and
8		(d)	storing mismatch information about static error afflicted nodes at
9			which the calculated values differ by more than a predetermined
10			first threshold value.
1	8.	The o	computer system according to claim 7 further comprising program
2		code	portions for performing the steps:
3		(e)	putting out said mismatch information for a manual correction,
4		(f)	carrying out a transient analysis covering the same functional cycle
5			after correction,
6		(g)	comparing calculated values from said analysis with calculated
7			values from said first or second DC simulation run at respective
8			circuit nodes, and
9		(h)	storing mismatch information about dynamic error afflicted nodes at
10			which the calculated values differ by more than a predetermined
11			second threshold value

11

1	9.	A hardware testing computer system having installed program means		
2		comprising program code portions for performing the steps:		
3		(a)	carrying out a first DC-simulation run at the begin of a functional	
4			cycle,	
5		(b)	carrying out a second DC-simulation run at the end of said cycle,	
6		(c)	comparing simulated values from both runs at respective circuit	
7			nodes, and	
8		(d)	storing mismatch information about static error afflicted nodes at	
9			which the calculated values differ by more than a predetermined	
10			first threshold value.	
1	10.	The o	computer system according to claim 9 further comprising program	
2		code	portions for performing the steps:	
3		(e)	putting out said mismatch information for a manual correction,	
4		(f)	carrying out a transient analysis covering the same functional cycle	
5			after correction,	
6		(g)	comparing calculated values from said analysis with calculated	
7			values from said first or second DC simulation run at respective	
8			circuit nodes, and	
9		(h)	storing mismatch information about dynamic error afflicted nodes at	
10			which the calculated values differ by more than a predetermined	

second threshold value.

1	11.	Com	outer program comprising code portions adapted for performing the
2		steps below when said program is loaded into a computer system:	
3		(a)	carrying out a first DC-simulation run at the begin of a functional
4			cycle,
5		(b)	carrying out a second DC-simulation run at the end of said cycle,
6		(c)	comparing simulated values from both runs at respective circuit
7			nodes, and
8		(d)	storing mismatch information about static error afflicted nodes at
9			which the calculated values differ by more than a predetermined
10			first threshold value.
1	12.	The	computer program according to claim 11 further comprising program
2		code	portions for performing the steps:
3		(e)	putting out said mismatch information for a manual correction,
4		(f)	carrying out a transient analysis covering the same functional cycle
5			after correction,
6		(g)	comparing calculated values from said analysis with calculated
7			values from said first or second DC simulation run at respective
8			circuit nodes, and
9		(h)	storing mismatch information about dynamic error afflicted nodes at
10			which the calculated values differ by more than a predetermined
11			second threshold value.

1	13.	Computer program product stored on a computer usable medium	
2		com	orising computer readable program for causing a computer to perform
3		the n	nethod comprising:
4		(a)	carrying out a first DC-simulation run at the begin of a functional
5			cycle,
6		(b)	carrying out a second DC-simulation run at the end of said cycle,
7		(c)	comparing simulated values from both runs at respective circuit
8			nodes, and
9		(d)	storing mismatch information about static error afflicted nodes at
10			which the calculated values differ by more than a predetermined
11			first threshold value.
1	14.	The	computer program product according to claim 13 wherein said
2		meth	nod further comprises performing the steps:
3		(e)	putting out said mismatch information for a manual correction,
4		(f)	carrying out a transient analysis covering the same functional cycle
5			after correction,
6		(g)	comparing calculated values from said analysis with calculated
7			values from said first or second DC simulation run at respective
8			circuit nodes, and
9		(h)	storing mismatch information about dynamic error afflicted nodes at
10			which the calculated values differ by more than a predetermined
11			second threshold value.